

Release Notes for IDC Version 4.0.178

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1. **(11/4/2011)** An optional source of moisture (e.g. seepage through levees, fog, capillary rise of saturated groundwater) is now simulated in addition to precipitation and irrigation. The Root Zone Main Input file is modified so that the user can specify the filename where the data for the additional source of moisture is stored (variable MSRCFL) as well as the pointers to this data file for each grid cell (variable IMSRC). The land and water use as well as the root zone budget output files are modified so that the effect of this additional source of moisture on meeting the agricultural water demand, and on the root zone water budget can be printed. IDC documentation and sample problem (it is assumed that no additional source of moisture is available in the sample problem) are updated to reflect this change.
2. **(11/8/2011)** Computation of actual ET is modified so that water stress for a crop starts to occur when soil moisture falls below the mid-point between field capacity and wilting point (i.e. half of total available water), instead of at or below half of field capacity.
3. **(11/9/2011)** Deep percolation when ponds for ponded crops drained was computed incorrectly. This error is corrected.
4. **(11/9/2011)** “Total Applied Water” column in the root zone budget output table is deleted since its meaning confused some users. Also, the “Return Flow” column is renamed as “Net Return Flow” to clarify the meaning of the values listed in this column.
5. **(11/11/2011)** When land use acreages changed, the final soil moisture in urban areas were sometimes computed incorrectly. This error is corrected.